

7th Indian Conference on Applied Mechanics (INCAM 2026)
Indian Institute of Technology Kanpur
9-11 July 2026

PROGRAM SCHEDULE

Time	DAY 1, Thursday (9 July 2026)	
09:00 - 9:30	Inauguration	
09:30 - 10:15	Inauguration & Presidential Address - Prof. Karunesh Kumar Shukla (Venue: L-18) Plenary Lecture 1: Alwar Memorial Lecture – Prof. R. Narasimhan (Venue: L-18) Topic: Mechanics of fracture of basal-textured magnesium alloys: Experiments and finite element modelling	
10:15 - 10:45	Photo Session and Tea Break	
10:45 – 13:15	Parallel sessions	
	Mini-symposium – Advances in Computational Solid Mechanics Room-1 Venue: Lecture Hall Complex	Invited Lecture by Prof. Srikanth Vedantam, IIT Madras Topic: Constitutively informed particle dynamics: A novel discrete particle modelling approach
		Paper IDs: 13, 15, 17, 23, 27, 30, 36, 81
	Mini-symposium - AI and HPC for Applied Mechanics Room-2 Venue: Lecture Hall Complex	Invited Lecture by Prof. Rishita Das, IISc Bangalore Topic: Machine learning for turbulent flows: From super-resolution to extreme events prediction
		Paper IDs: 11, 41, 59, 109, 117, 126, 139
	Mini-symposium - Fatigue and Fracture Room-3 Venue: Lecture Hall Complex	Invited Lecture by Prof. Gaurav Singh, IIT Delhi Topic: State of stress in the crack-tip region: Theory, experiments and simulations

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		Paper IDs: 4, 22, 63, 65, 69, 74
	Mini-symposium – Mechanics in Bio-applications and Sports Room-4 Venue: Lecture Hall Complex	Invited Lecture by Prof. Jaywant Arakeri, IISc Bengaluru Topic: Fluid mechanics of fish-like locomotion
		Paper IDs: 33, 35, 43, 49, 50, 52, 53, 61
	Mini-symposium – Design of Engineering Structures Room-5 Venue: Lecture Hall Complex	Invited Lecture by Prof. Devesh Punera, IIT Bhubaneswar Topic: Manufacturing defect-dependent modelling of variable angle tow composites using refined structural models
		Paper IDs: 25, 93, 122, 142, 197, 234
	Mini-symposium – Mechanics of Soft and Biological Matter Room-6 Venue: Lecture Hall Complex	Invited Lecture by Prof. Sumit Basu, IIT Kanpur Topic: Surface stresses in ultra-soft solids
		Invited Lecture by Prof. Krishna Kannan, IIT Madras Topic: A first-principles chemo-mechanical framework for smooth muscle contraction: From cellular kinetics to organ-level response
		Paper IDs: 44, 57, 133, 158, 371
	Mini-symposium – Fluid-Structure Interaction Room-7 Venue: Lecture Hall Complex	Invited Lecture by Prof. Prasad Patnaik, IIT Madras Topic: Fluid-structure interaction: Cerebrovascular disease simulations for patient specific management
Paper IDs: 55, 151, 209, 212, 219, 220		
13:15 - 14:30	Lunch Break	
14:30 - 16:15	Parallel sessions	

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	<p style="text-align: center;">Mini-symposium - Plasticity and Creep Room-1 Venue: Lecture Hall Complex</p>	<p style="text-align: center;">Invited Lecture by Prof. Praveen Kumar, IISc Bangalore Topic: Length scale effects on power law creep of materials: Cases of uniform and graded stress fields</p>
		Paper IDs: 64, 105, 127, 143
	<p style="text-align: center;">Mini-symposium - AI and HPC for Applied Mechanics Room-2 Venue: Lecture Hall Complex</p>	<p style="text-align: center;">Invited Lecture by Prof. Vadlamani Nagabhushana Rao, IIT Madras Topic: High-fidelity turbulence simulation towards exascale: Methods, case studies, and HPC strategies</p>
		Paper IDs: 152, 164, 171, 289
	<p style="text-align: center;">Mini-symposium - Fatigue and Fracture Room-3 Venue: Lecture Hall Complex</p>	Paper IDs: 77, 78, 83, 87, 103, 194, 216
	<p style="text-align: center;">Mini-symposium – Mechanics in Bio-applications and Sports Room-4 Venue: Lecture Hall Complex</p>	<p style="text-align: center;">Invited Lecture by Prof. Sanjay Mittal, IIT Kanpur Topic: Sports aerodynamics: Cricket, badminton, frisbee</p>
		Paper IDs: 68, 71, 72, 107, 131, 205, 229
<p style="text-align: center;">Mini-symposium – Design of Engineering Structures Room-5 Venue: Lecture Hall Complex</p>	<p style="text-align: center;">Invited Lecture by Prof. Kaustubh Dasgupta, IIT Guwahati Topic: Seismic design philosophy of RC wall-frame buildings with the role of floor slabs</p>	
	Paper IDs: 251, 294 (S01), 323, 341 S01: Sponsors talk from Pyrodynamics	
<p style="text-align: center;">Mini-symposium – Mechanics of Soft and Biological Matter Room-6 Venue: Lecture Hall Complex</p>	<p style="text-align: center;">Invited Lecture by Prof. Viswanath Chinthapenta, IIT Hyderabad Topic: Investigation of sutures and sutureability in ophthalmology</p>	
	Paper IDs: 172, 221, 225, 242	
<p style="text-align: center;">Mini-symposium – Fluid-Structure Interaction Room-7</p>	<p style="text-align: center;">Invited Lecture by Prof. Sanjay Kumar, IIT Kanpur Topic: TBD</p>	

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	Venue: Lecture Hall Complex	Paper IDs: 230, 238, 286, 325
16:15 -16:30	Tea Break	
16:30 - 18:30	Parallel sessions	
	Mini-symposium – Advances in Computational Solid Mechanics Room-1 Venue: Lecture Hall Complex	Invited Lecture by Prof. Venkatraman Pandurangan, IIT Tirupati Topic: From data to physics: Machine learning in computational solid mechanics
		Paper IDs: 146, 175, 178, 180, 196, 239
	Mini-symposium – Advances in Computational Fluid Dynamics Room-2 Venue: Lecture Hall Complex	Invited Lecture by Prof. Harshal Akolekar, IIT Jodhpur Topic: Scientific machine learning for turbulence and transition modelling applications to gas turbine flows
		Paper IDs: 110, 170, 210, 211, 217, 226
	Mini-symposium – Contact Adhesion & Friction Room-3 Venue: Lecture Hall Complex	Invited Lecture by Dr Ramkumar Penchaliah, IIT Madras Topic: Systematic approach for contact mechanics-based FEM wear simulation Invited Lecture by Prof. Gopakumar Parameswaran, BP Mumbai Topic: A transient friction rig for differentiating engine lubricant performance at the high-pressure fuel pump roller-follower
		Paper IDs: 38, 119, 160, 262
	Mini-symposium – Mechanics of Composite Materials Room-4 Venue: Lecture Hall Complex	Invited Lecture by Prof. C. S. Upadhyay, IIT Kanpur Topic: The dawning age of plant-based composites: From waste to structure
	Paper IDs: 7, 14, 76, 79, 98	

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	Mini-symposium – Mechanics for Sustainability Room-5 Venue: Lecture Hall Complex	Paper IDs: 92, 184, 187
	Mini-symposium – Undergraduate Research Program (URP) Room-6 Venue: Lecture Hall Complex	Paper IDs: 114, 253, 318, 363, 367, 368
18:30 - 19:30	AGM	
19:30	Dinner	

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Time	DAY 2, Friday (10 July 2026)	
08:00 - 09:00	Breakfast	
09:00 - 09:45	Plenary Lecture 2: Prof L S Srinath Memorial Lecture - Prof. Jayant Sirohi (Venue: L-18) Topic: Harvesting energy from aeroelastic instabilities	
09:45 - 10:15	Tea Break	
10:15 - 12:45	Parallel sessions	
	Mini-symposium – Advances in Computational Solid Mechanics Room-1 Venue: Lecture Hall Complex	Invited Lecture by Prof. Alankar, IIT Bombay Topic: Application of physics-informed machine learning for elasticity, plasticity and coupled problems of chemo-mechanics in solids
		Paper IDs: 268, 314, 315, 347
	Mini-symposium – Advances in Computational Fluid Dynamics Room-2 Venue: Lecture Hall Complex	Invited Lecture by Prof. Ratnesh Shukla, IISc Bangalore Topic: Adaptive-order unstructured methods for shock-driven flows
		Invited Lecture by Prof. Ashwani Assam, IIT Patna Topic: Algorithmic advances in shock-resolving methods for compressible flow simulations
		Paper IDs: S02, 228, 232, 291, 324, 336 S02: Sponsors talk from CADFEM
	Mini-symposium - Fatigue and Fracture Room-3 Venue: Lecture Hall Complex	Invited Lecture by Prof. Indra Vir Singh, IIT Roorkee Topic: A numerical framework based on CDM to evaluate the fatigue life of laminated composites
		Paper IDs: 218, 247, 293, 332, 346
Mini-symposium – Mechanics of Composite Materials Room-4	Paper IDs: 102, 134, 150, 154, 162, 182, 183, 244, 255, 269	

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	Venue: Lecture Hall Complex	
	Mini-symposium -Geomechanics and Planetary Science Room-5 Venue: Lecture Hall Complex	Invited Lecture by Prof. Manash Chakraborty, IIT (BHU) Varanasi Topic: Seepage and consolidation flow through unsaturated soil Invited Lecture by Prof. Satyajit Pramanik, IIT Guwahati Topic: Deformation-driven mixing in a soft porous medium
		Paper IDs: 70, 82, 111, 113, 157, 259, 266, 282
	Mini-symposium – Numerical Simulations for Static and Dynamic Studies Room-6 Venue: Lecture Hall Complex	Invited Lecture by Prof. S.K. Panda, IIT (BHU) Varanasi Topic: Dynamic fracture behavior of nuclear graphite
		Paper IDs: 19, 21, 24, 46, 48
	Mini-symposium – Mechanics of Smart Materials and Structures Room-7 Venue: Lecture Hall Complex	Invited Lecture by Prof. Shaikh Faruque Ali, IIT Madras Topic: Mechanics of energy harvesters
		Paper IDs: 10, 20, 42, 91, 233, 132, 156, 163
12:45 - 14:00	Lunch Break	
	Parallel sessions	
14:00 - 16:00	Mini-symposium - Plasticity and Creep Room-1 Venue: Lecture Hall Complex	Invited Lecture by Prof. Shyam Keralavarma, IIT Madras Topic: Mechanics of plastic instability in thermo-viscoplastic solids Invited Lecture by Prof. P. J. Guruprasad, IIT Bombay Topic: Dislocation mean free path and grain size effects in creep plasticity of polycrystalline metals
		Paper IDs: 155, 176, 271, 273, 276

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	<p style="text-align: center;">Mini-symposium - AI and HPC for Applied Mechanics Room-2 Venue: Lecture Hall Complex</p>	<p style="text-align: center;">Invited Lecture by Prof. Souvik Chakraborty, IIT Delhi Topic: See, hypothesize, discover: Agentic AI for scientific discovery</p>
		Paper IDs: 317, 334, 360, 369, 373
	<p style="text-align: center;">Mini-symposium – Contact Adhesion & Friction Room-3 Venue: Lecture Hall Complex</p>	<p style="text-align: center;">Invited Lecture by Prof. Nitya Nand Gosvami, IIT Delhi Topic: Anisotropic frictional characteristics of bioinspired nanopatterned surfaces</p>
		Paper IDs: 264, 267, 277, 279, 305
	<p style="text-align: center;">Mini-symposium – Mechanics of Composite Materials Room-4 Venue: Lecture Hall Complex</p>	Paper IDs: 278, 280, 281, 304, 307, 340, 359, 370
	<p style="text-align: center;">Mini-symposium - Design of Engineering Structures Room-5 Venue: Lecture Hall Complex</p>	<p style="text-align: center;">Invited Lecture by Prof. Avik Samanta, IIT Patna Topic: Behavior of class-4 steel beams with opening</p>
		Paper IDs: 125, 342, 350, 364
<p style="text-align: center;">Mini-symposium – Numerical Simulations for Static and Dynamic Studies Room-6 Venue: Lecture Hall Complex</p>	<p style="text-align: center;">Invited Lecture by Prof. B. Venkataraman, Amrita Vishwa Vidyapeetham Topic: Mechanics of static and dynamic indentation and its relevance in engineering application</p>	
	Paper IDs: 54, 86, 136, 144, 165	
<p style="text-align: center;">Mini-symposium - Mechanics of Highly Deformable Bodies & Materials Room-7 Venue: Lecture Hall Complex</p>	<p style="text-align: center;">Invited Lecture by Prof. M. S. Bobji, IISc Bengaluru Topic: Controlled cone crack formation in hydrogels during needle insertion: Influence of network structure</p>	
	Invited Lecture by Prof. Akshay Joshi, IISc Bengaluru	

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		Topic: Hetero-EUCLID: Interpretable model discovery for heterogeneous hyperelastic materials using stress-unsupervised learning
		Paper IDs: 34, 145, 153
16:00 -16:30	Tea Break	
16:30 - 18:30	Mini-symposium - Plasticity and Creep Room-1 Venue: Lecture Hall Complex	Invited Lecture by Prof. Ilaksh Adlakha, IIT Madras Topic: Effect of hydrogen on plasticity of α -Fe: a multi-scale assessment
		Paper IDs: 285, 322, 356, 358
	Mini-symposium - Turbulent and Complex Flows Room-2 Venue: Lecture Hall Complex	Invited Lecture by Prof. Aniruddha Sinha, IIT Bombay Topic: Modelling non-axisymmetric jet noise
		Paper IDs: 80, 88, 104, 116, 118, 215
	Mini-symposium – Contact Adhesion & Friction Room-3 Venue: Lecture Hall Complex	
		Paper IDs: 309, 311, 362, 374
	Mini-symposium - Mechanics of Smart Materials and Structures Room-4 Venue: Lecture Hall Complex	Invited Lecture by Prof. Mira Mitra, IIT Kharagpur Topic: Modeling of wave propagation in periodic structures for application to metamaterials
		Paper IDs: 177, 193, 200, 204, 243

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	<p style="text-align: center;">Mini-symposium - Mechanics in Bio-applications and Sports Room-5 Venue: Lecture Hall Complex</p>	<p style="text-align: center;">Paper IDs: 235, 246, 248, 321, 335, 353, 355, 357, 365</p>
	<p style="text-align: center;">Mini-symposium - Mechanics of Soft and Biological Matter Room-6 Venue: Lecture Hall Complex</p>	<p style="text-align: center;">Paper IDs: 256, 295, 306, 319</p>
	<p style="text-align: center;">Mini-symposium - Fatigue and Fracture Room-7 Venue: Lecture Hall Complex</p>	<p style="text-align: center;">Paper IDs:</p>
18:30 – 19:30	Cultural Program	
19:30	Gala Dinner	

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Time	DAY 3, Saturday (11 July 2026)	
08:00 - 09:00	Breakfast	
09:00 - 09:45	Plenary Lecture 3: Karunakaran Memorial Lecture - Prof. Ravindra Adusumilli (Venue: L-18)	
09:45 - 10:15	Tea Break	
10:15 - 12:45	Parallel sessions	
	Mini-symposium - Extreme Mechanics Room-1 Venue: Lecture Hall Complex	Invited Lecture by Prof. Dhiraj K. Mahajan, IIT Ropar Topic: Understanding the interplay of multiple mechanisms of hydrogen embrittlement using experiments and simulations Paper IDs: 62, 85, 90, 99, 108, 138, 174
	Mini-symposium - Turbulent and Complex Flows Room-2 Venue: Lecture Hall Complex	Invited Lecture by Prof. Somnath Roy, IIT Kharagpur Topic: Flow features over bileaflet mechanical heart valves Paper IDs: 223, 297, 302, 313, 338, 339, 345
	Mini-symposium - Numerical Simulations for Static and Dynamic Studies Room-3 Venue: Lecture Hall Complex	Paper IDs: 207, 326, 327, 366
	Mini-symposium - Mechanics of Smart Materials and Structures Room-4 Venue: Lecture Hall Complex	Invited Lecture by Prof. Bishakh Bhattacharya, IIT Kanpur Topic: Evolution of intelligent autonomous system based on smart materials Paper IDs: 250, 261, 292, 328
	Mini-symposium - Ayurveda Room-6	Invited lecture by Prof. V Srinivas Chackravarthy, IIT Madras Topic: Rethinking the tridosha theory of Ayurveda: A biothermodynamic perspective

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	Venue: Lecture Hall Complex	Paper IDs: 60, 224, 283
12:45 - 14:00	Lunch Break	
	Parallel sessions	
14:00 - 16:00	Mini-symposium – Extreme Mechanics Room-1 Venue: Lecture Hall Complex	Invited Lecture by Prof. Ganpule Shailesh Govind, IIT Roorkee Topic: Biomechanical analysis of surrogate head forms equipped with ballistic helmets under high velocity bullet impact
		Paper IDs: 181, 260, 272, 337, 344
	Mini-symposium - Geomechanics and Planetary Science Room-2 Venue: Lecture Hall Complex	Paper IDs:
	Mini-symposium - Mechanics of Highly Deformable Bodies & Materials Room-3 Venue: Lecture Hall Complex	Invited Lecture by Prof. Abir Bhattacharyya, IIT Jodhpur Topic: Elastic modulus and strain-dependent lateral to axial strain ratio in semi-dilute polyacrylamide hydrogels
		Paper IDs: 287, 301, 312
	Mini-symposium – Ayurveda Room-6 Venue: Lecture Hall Complex	Invited Lecture by Dr. GRR Chakravarthy, SJSACH, Chennai Topic: Yukti Vyapāśraya: Scientific characterisation of rational therapeutics Invited Lecture by Dr Rishi Manivannan, Director, Vaidyarishi Ayurveda Topic: Daivavyapasraya chikitsa – Unmada & Apasmara: wrt autism spectrum disorder Invited Lecture by Prof Shripathi Acharya, Muniyal Institute of Ayurveda Medical Sciences

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		<p>Topic: Role of daiva vyapashraya chikitsa in the management of autism</p> <p>Invited Lecture by Dr. P. K. Partheeban, Swabhimaan Trust - Holistic Solutions for Autism</p> <p>Topic: Bridging neurodiversity, tradition, and technology</p>
	Tea Break	
16:15 -16:30	Valedictory Function	